Table A.2.30. Main Yard AOC 19 Summary of Boring Log and Analytical Data

Boring/ Date/ Report	Total Depth of Boring	Depth to Water[1]	Lithologic Description[2] (Observation Notes)	Maximum PID Response, ppm_v (Depth)	Sample Type[3]	Sample ID (Depth)	Analyses[4]	COC Concentrations Greater Than Delineation Criteria
T0001 1/20/03 Full RFI 2nd Iter. AOC 19	12	--	Fill: 0-11 (black fly ash, catalyst beads, tar like asphalt, water exhibits LNAPL globules on surface) Peat and clay: 11-12	17 (9-9.5)	None			
S0837 MW133 8/28/02 Full RFI AOC 19	14	1	Fill: 0-11: (product like odor at 1-4; catalyst beads at 4-6; black stained at 4-6) Silt: 11-12 Sand: 12-14	223 (6-6.5)	P, S, F	S0837A4 (1.5-2)	V, S, M (DP,/MS/ MSD)	None
						S0837C3 (5-5.5)	Phys. Char.	
					P, S, F	S0837C4 (5.5-6)	V, S, M, SPLP Metals.	Benzo(a)anthracene: 31 mg/kg **Benzo(a)pyrene: 27 mg/kg** Benzo(b)fluoranthene: 26 mg/kg Benzo(k)fluoranthene: 13 mg/kg Dibenzo(a,h)anthracene: 3.2 mg/kg Indeno(1,2,3-cd)pyrene: 11 mg/kg *Carbazole: 4.4 mg/kg (Impact to Groundwater—not applicable)* Iron: 29000 mg/kg
					P, S, N	S0837G4 (13.5-14)	V, S, M	None
					Water	MW133 10/17/02	V, S, M water quality	**Benzene: 2J ug/L**
S0836 8/13/02 Full RFI AOC 19	12	1.5	Fill: 0-9: (little black stained at 0-1; black stained sand, LNAPL tar-like at 5-6; dark gray stained at 6-7) Clay: 9-12	161 (5.5-6)	O, S, F	S0836A4 (1.5-2)	V, S, M	Iron: 41700 mg/kg

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					O, S, F	S0836C4 (5.5-6)	V, S, M	Benzo(a)anthracene: 3.2 mg/kg **Benzo(a)pyrene: 2.4 mg/kg** Benzo(b)fluoranthene: 1.6J mg/kg Arsenic: 28 mg/kg Iron: 28900 mg/kg
					O, S, N	S0836F4 (11.5-12)	V, S, M	Iron: 28500 mg/kg
S0835 8/14/02 Full RFI AOC 19	9	-	Fill: 0-7: (seams of black stained sand; asphalt-like at 0-1; LNAPL like odor at 3.5-4) Clay and Peat: 7-9	36 (2.5-3)	O, U, F	S0835A4 (1.5-2)	V, S, M	Iron: 25700 mg/kg
					O, U, F	S0835B2 (2.5-3)	V, S, M, SPLP metals	Benzo(a)anthracene: 2.8J mg/kg **Benzo(a)pyrene: 1.3J mg/kg** Benzo(b)fluoranthene: 1.6J mg/kg Iron: 23800 mg/kg SPLP Iron: 3.72 mg/L
					O, U, N	S0835E2 (8.5-9)	V, S, M	None
S0834 8/14/02 Full RFI AOC 19	18	8.5	Fill: 0-15.5: Sand (black stained 2" layer at 6-7; black stained at 15-15.5) Clay: 15.5-16 Silt and Clay: 16-18	70 (15-15.5)	O,U, F	S0834A4 (1.5-2)	V, S, M	None
					O, S, F	S0834H3 (15-15.5)	V, S, M SPLP metals	None
					O, S, N	S0834I4 (17.5-18)	V, S, M	None
S0833 8/14/02 Full RFI AOC 19	18	6	Fill: 0-15: Sand (black slag at 13-14) Clay: 15-18	41 (12.5-13)	O, U, F	S0833A4 (1.5-2)	V, S, M	None

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					O, U, F	S0833C3 (5-5.5)	V, S, M	None
					O, S, N	S0833I2 (16-16.5)	V, S, M	Iron: 31700 mg/kg
H0415 9/28/99 2nd OWSS (MY3)	12	2	Fill: 0-7 Clay/sand: 7-12	2 (3-4)	Water	H0415	V, S, M	Arsenic: 13.5 ug/L Lead: 19.4 ug/L Vanadium: 58.4 ug/L
H0414 9/28/99 2nd OWSS (MY3)	12	1	Fill: 0-7: (some black staining, odor at 4-7) Clay: 7-12	35 (6-7)	Water	H0414	V, S, M	Lead: 27.4 ug/L
H0413 9/28/99 2nd OWSS (MY3)	12	2	Fill: 0-7 Clay: 7-12	0	Water	H0413	V, S, M	None
H0412 9/28/99 2nd OWSS (MY3)	12	3	Fill: 0-7 Clay: 7-12	0	Water	H0412	V, S, M	None
H0303 8/9/99 2nd OWSS (MY3)	12	3.5	Fill: 0-7: (staining at 3.5-4, hydrocarbon odor; fly ash, globules of dark brown to black liquid, hydrocarbon odor at 6-7) Clay: 7-12 (hydrocarbon odor at 7-8 and 9-11)	140.3 (7-8)	Water	H0303	V, S, M	**Benzene: 860D ug/L** Xylenes: 210 ug/L Lead: 22.1 ug/L
H0222 3/9/99 1st Groundwater Addendum AOC 19	6	2	Fill: 0-6: (hydrocarbon odor at 0-2; black staining, hydrocarbon odor at 2-4	4.9 (1-2)	Water	H0222	V, S, M	Arsenic: 12.1 ug/L Lead: 54.1 ug/L
HP0120 9/18/97 1st Groundwater AOC 19	5	1	See SB0189	6	Water	HP0120	V, S, M	Antimony: 22.7 ug/L Arsenic: 194 ug/L Chromium: 498 ug/L Lead: 1020 ug/L Nickel: 249 ug/L Vanadium: 1070 ug/L

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TPZ7GW 2/27/98 1st Groundwater AOC 3	8	0.86	Fill:0-8: (slight hydrocarbon odor at 0-2)	0	None			
PZ0012 4/24/95 Stabilization Measures AOC 19	11	6	Fill: 0-8 Peat: 8-10 Silt: 10-11	110 (9-10)	LNAPL	PZ0012P PZ0012	GC Fingerprint	LNAPL present Very weathered crude oil
TPZ12-5 10/6/97 Stabilization Measures AOC 19					None			Coating observed on probe
TPZ12-4 10/6/97 Stabilization Measures AOC 19					None			No LNAPL observed
TPZ12-3 10/3/97 Stabilization Measures AOC 19	12	8	Fill: 0-10 (saturated with NAPL at 6-8, petroleum odor at 8-10) Sand and clay: 10-12	4 (8-10)	None			No LNAPL observed
TPZ12-2 10/3/97 Stabilization Measures AOC 19	12	7.5	Fill: 0-8 (black NAPL area at 5-8) Clay and silt: 8-10	18 (6-8)	None			No LNAPL observed
TPZ12-1 10/3/97 Stabilization Measures AOC 19	12	7.5	Fill: 0-10 (dark black NAPL area at 7-10) Clay: 10-12	289 (10)	None			LNAPL present
SB0190 2/20/96 1st Soils AOC 19	6	5	Fill: 0 - 5.8: (mild petroleum odor at 0-2) Meadow Mat/Peat: 5.8-6	44 (4-6)	O, U, F	SB0190SC (4-6)	V, S, M	None

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SB0189 2/19/96 1st Soils AOC 19	6	4	Clay: 0-6: heavy petroleum staining, sheen on spoon at 2.5-6	86.5 (2-4)	O, U, F	SB0189SB (2-4)	V, S, M, TPH	No. 2 Fuel Oil Benzo(a)anthracene: 7.3 mg/kg **Benzo(a)pyrene: 6.5mg/kg** Benzo(b)fluoranthene: 4.8 mg/kg Arsenic: 20.8 mg/kg
SB0188 2/19/96 1st Soils AOC 19	8	4.3	Sand: 0-7 (dark petroleum staining, sheen on spoon at 0-2) Meadow Mat: 7-8	120 (2-4)	O, U, F	SB0188SB (2- 4)	V, S, M	None

NOTES:

Benzene and benzo(a)pyrene are highlighted in bold because they are indicator constituents of concern (COCs)

Shaded rows indicate samples collected from nearby SWMUs/AOCs

ppm_v = parts per million (volume basis)

All depths referenced on this summary table are in feet below the ground surface.

PID = Photoionization detector.

ID = Identifier.

mg/kg = milligrams per kilogram (equivalent to parts per million).

µg/L = micrograms per liter (equivalent to parts per million).

[1]Depth to water as observed during borehole advancement.

[2]"Fill" encountered within the completed borings was characteristically described as an asphalt layer (typical) underlain by a heterogeneous gravel to clay mixture of unconsolidated materials, ranging in color from tan to gray with occasional construction debris (e.g., brick) present. In some locations, the fill material is further characterized by containing a slag or beaded material, in which case it is noted within the table. Also noted on the table are any other olfactory or visual observations that indicate potential petroleum-type impacts within the fill unit were observed.

[3]P – property boundary, O – on-site, U – unsaturated, S – saturated, F – fill, N – native. "None" indicates that no sample was collected.

[4]V – VOCs, S – SVOCs, M – metals, Pb – lead, TOL – total organic lead, TEL – tetraethyl lead, TPH – Total Petroleum Hydrocarbons; SPLP– Synthetic Precipitation Leaching Procedure; -Phys. Char.--physical characteristics.